

CLAIMS

1. A multilayer electrical component,
  - 5 - with a plurality of ceramic layers (1) arranged one on top of the other along a longitudinal axis (3),
  - with interposed electrode layers (2a, 2b),
  - 10 - wherein a ceramic layer (4) is arranged between two ceramic layers (1) at least at one point along the longitudinal axis (3), said having designed breach lower stability than the ceramic layers (1) with regard to tensile stresses (8) in the longitudinal direction.
2. The component as cited in claim 1, in which the designed breach layers (4) have a greater porosity than the ceramic layers.
- 20 3. The component as cited in either of claims 1 or 2, that is a monolithic component produced by sintering.
- 25 4. The component as cited in any of claims 1 to 3, comprising a plurality of setpoint breach layers (4) at multiple points along the longitudinal axis (3).
- 30 5. The component as cited in any of claims 1 to 4, in which the electrode layers (2a, 2b) directly adjacent to a designed breach layer (4) are assigned to the same electrical polarity of the component.
- 35 6. The component as cited in any of claims 1 to 5, in which the porosity of the designed breach layers (4) is increased by a factor between 1.2 and 3 with respect to the ceramic layers (1).

7. The component as cited in any of claims 1 to 6,  
in which the designed breach layers (4) are made from  
the same ceramic material as the ceramic layers (1).

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8. The component as cited in any of claims 1 to 7,  
which is a piezoelectric actuator.

9. A layer stack,

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- having ceramic green films that are stacked one  
on top of the other and contain a ceramic powder  
and an organic bonding agent,

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- wherein at least one of the green films has an  
increased volumetric content of bonding agent  
with respect to the other green films.

10. The layer stack as cited in claim 9,

20 in which the volumetric content of bonding agent is  
increased by a factor of 1.5 to 3.